

**New Proposal-Technology Development**

|  |  |
| --- | --- |
| Title of the product/technology: | Pneumonia Detection using Deep Learning |
| Subject: | Image Classification |
| Village where it is to be implemented: | Kanavihonnapura |
| Why is this required: | To detect Pneumonia fast. |
| Total cost of the product/technology: | Not yet decided |
| Funds raised from gram panchayat or CSR or district/local administration?: | None |
| Your role during the execution: | Made a Classification Model |
| Your role after installation: | Scale the product |
| Brief description: | We are coming up with a tool for doctors that is able to classify medical images (x-ray scans for lungs). This is a personalized medical diagnosis that uses deep learning and machine learning to help doctors and patients. The diseases that we will be detecting are Bacterial Pneumonia and Viral Pneumonia. |
| Impact of this work on learning of students/teachers: | We were able to learn about Pneumonia and its impact on society. We compared many Machine Learning Models and decided upon MobileNets to use for this classification. We also learnt many statistical models and data preprocessing. |
| Duration of the work: | 3 months |
| Final impact: | Fast and accurate detection of Pneumonia. |

Team Members:

|  |  |  |
| --- | --- | --- |
| Name | Ph no | Email id |
| Nagendra T. P. | 9663318289 | nagendraputhane@gmail.com |
| Amruth Magadum |  |  |
| Chinmay Dixit |  |  |
| R. R. Prashanth |  |  |

Guide Name: Ms. Vandhana Bhat

Dr. Biradar.